Title: Quantum Algorithm Developer
Salary: $85,000 – $95,000 p.a. plus super contribution of 10%

Department: Quantum Technology   **Location:** Sydney, Australia
                                              Type: Full time

Summary

Post PhD with a background in quantum physics or quantum chemistry (or similar) with experience in quantum algorithm development required. Full-time and based in the Sydney CBD.

About Us

Archer Materials Limited is an ASX listed technology company that builds advanced semiconductor devices, including processor chips relevant to quantum computing.

Archer is part of the global IBM Quantum Network, giving us access to IBM's quantum computers and the Qiskit quantum software development platform.

As part of Archer's growing quantum technology team, you will be working with national and international industry and research partners focused on quantum software development and making contributions to IBM's Qiskit.

The Role

As part of Archer's growing quantum technology team, you will be working alongside experimental physicists, nanofabrication engineers, chemists, and theoreticians. This exciting newly created role reporting to the Manager of Quantum Technology, requires a technical background in quantum physics or quantum chemistry (or similar), with a track record in the development and/or application of one of the following: quantum-specific algorithms, quantum error correction, quantum machine learning, quantum circuit design, or related field.

Key duties and responsibilities:

- Design and implement quantum algorithms using IBM's Qiskit platform.
- Actively pursue engagement with external stakeholders for collaborative development of quantum algorithms.
- Participate in the development of intellectual property in-line with agreed strategy and policy.
- Communicate technology outcomes through a number of publication channels.

Key skills, experience, and attributes:

- Interest in developing and applying quantum algorithms to solve real-world problems.
- Experience in Python and quantum specific programming (e.g. IBM Qiskit).
- Experience with version control systems (e.g. Git, CVS, Vault, etc.).
- Familiarity with quantum computing hardware, simulators or annealers.

This role requires the right to live and work in Sydney, Australia on a full-time basis. and is based in the Sydney CBD.